



09-27-02

SP1772

Express Mail Mailing Label No. EL 815828427US
PATENT

Patent No. 00SC080US6

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Dong-Feng Gu, et al

Examiner: RHEE, Jane J

Serial No: 09/855, 921

Art Unit: 1772

Filed: May 15, 2001

Title: POLYIMIDE-FREE ALIGNMENT LAYER FOR LCD FABRICATION
AND METHOD

Box Non-Fee Amendment
Assistant Commissioner for Patents
Washington, D. C. 20231

RECEIVED
OCT 01 2002
TC 1700

AMENDMENT TRANSMITTAL

Sir:

Transmitted herewith is an Amendment and a Response to August 29, 2002 Office Action. Application is a small entity.

The Commissioner is hereby authorized to charge any additional fees which may be required and to credit any overpayment, to Deposit Account No. 11-1580. A duplicate of this sheet is enclosed.

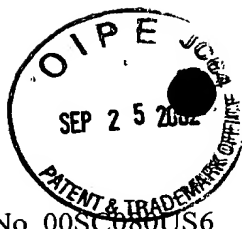
September 25, 2002

Respectfully submitted,

By:

Michael J. Ram
Registration No. 26,379
Attorney for Applicant(s)

KOPPEL, JACOBS, PATRICK & HEYBL
555 St Charles Drive, Suite 107
Thousand Oaks, CA 91360
Phone (805) 373-0060
Fax (805) 373-0051



Docket No. 00SC080US6

Express Mail Mailing Label No. EL 815828427US
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Dong-Feng Gu, et al

Examiner: Rhee, Jane J.

Serial No: 09/855, 921

Filed: May 15, 2001

Art Unit: 1772

Title: POLYIMIDE-FREE ALIGNMENT LAYER FOR LCD FABRICATION
AND METHOD

Box Non-Fee Amendment
Assistant Commissioner for Patents
Washington, D. C. 20231

RECEIVED
OCT 01 2002
TC 1700
#5/A
KW
10200

AMENDMENT

Sir:

Please amend claims 1, 7, 16, 17 and 18 to read as follows:

- A1 SUB B27
1. (Amended) An alignment layer for a liquid crystal device, comprising:
an epoxy; and
a reactive mesogen mixed with said epoxy, the reactive mesogen
comprising aligned liquid crystal molecules

A2

7. (Amended) A method for fabricating an alignment layer for a liquid crystal device,
comprising:

- a) dissolving an epoxy and a reactive mesogen (RM), the reactive mesogen
comprising liquid crystal molecules, in a solvent to form an isotropic
mixture;
b) forming a layer of said mixture on a substrate;
c) removing solvent from the layer;
d) polymerizing the layer; and
e) aligning the molecules in the layer.

A3

16. (Amended) In a liquid crystal device a method for forming an aligned liquid crystal
layer comprising:

- casting a liquid crystal composition on a previously formed alignment
layer, said previously formed alignment layer comprising:
a UV curable epoxy; and
a reactive mesogen, molecules in said mesogen being aligned; and